



## TRAVERSE CITY FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 005 ENTRY YEAR: 2004

Compartment Acreage: 1895 (GIS: 1905) County: Benzie

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**Stand Examiner:** Robert A. Walters, Timothy L. Webb

**Legal Description:** T27N - R14W - Sections 2, 11, 14

**Management Goals:** Habitat/Vegetation – intensive timber

**Soil and Topography:** Most of the compartment is level to gently rolling with occasional kettle depressions, small wetlands and draws. A significant slope break and parallel valley run roughly north/south through parts of sections 2 and 11. Soils are predominantly loamy sands (Kalkaska/Rubicon) with some well drained sands in the valleys.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

Three private parcels lie within the compartment boundaries, the largest being 80 acres. Two of these parcels have homes; the other is a recreational property with a cabin in trespass on adjacent state land. Ownership within a mile in all directions is mainly State land with the exception of the southwest corner which contains private parcels within 1/2 mile of the compartment boundary.

**Unique, Natural Features:**

Pigeon Lake is in section 14, mostly on private land.

**Archeological, Historical, and Cultural Features:** None known.

**Special Management Designations or Considerations:** Approximately the south  $\frac{3}{4}$  of the east  $\frac{1}{2}$  of section 14 is a proposed old growth area.

**Watershed and Fisheries Considerations:** No water in Compartment.

**Wildlife Habitat Considerations:** Approximately two thirds of compartment 5 lies on a small moraine ridge (Land Type Association 1411). This LTA is characterized by having many kettle lakes, well-drained sands, and irregular topography. In presettlement times this LTA was almost completely northern hardwoods. Currently, State ownership of LTA 1411 in comp 5 is mostly northern hardwoods with small areas mixed with aspen or conifers. There are several red pine plantations. The openings in this portion of LTA 1411 are typically located in draws situated between ridges and are most likely the result of frost pockets. Existing

northern hardwood stands should be managed to perpetuate the cover type. Timber prescriptions in the northern hardwood stands should be designed to promote species diversity as well as include specs for snags, coarse woody debris, and conifers. There are several small white pine plantations with inclusions of northern hardwoods. These conifer stands are typically situated in draws between ridges and provide pockets of cover for wildlife, such as: eastern gray squirrels, common gray fox, white breasted nuthatches, and blue-spotted salamanders. Pockets of higher quality big tooth aspen could be maintained within hardwood stands through periodic patch cutting. These aspen pockets should be located on the fringe of the LTA, such as on the edge of the more fire prone draws, where fires on the outwash plains might have penetrated slightly into moraine country.

About one third of this compartment is located on a broad flat outwash plain (LTA 5111). Presettlement vegetation was mostly upland conifers. Wild fires that were common to this LTA maintained these conifer forests. Occasional occurrences of northern hardwood or NH/conifer mix were found in areas of good fire protection. Currently, LTA 5111 within comp 5 comprises a mosaic of conifer plantations, hardwoods stands of various ages, small openings, and several young aspen stands. Small plantings of white spruce are interspersed throughout the LTA within this compartment. Conifers are not found as a stand component outside of the plantations. This area should be managed to maintain a variety of forest age classes, successional stages, and patch sizes, as well as grass/shrub openings consistent with fire driven dynamics associated with this LTA. Such a mosaic would benefit species such as American redstarts, chestnut-sided warblers, ruffed grouse, and white-tailed deer, and amphibians associated with vernal pools.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. Glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Devonian Traverse Group. The Traverse is used for stone and cement. The nearest gravel pit is three miles away but there should be some gravel potential in the compartment. This area is located northwest of the Antrim Shale gas play. The Antrim Shale appears to be pinched out and there appears to be limited potential.

**Vehicle Access:** Access is adequate throughout the compartment. An existing trail road in the SW ¼ of section 11 might be improved east to Haze Road to accommodate timber harvesting in that area, as the existing connection to the west is in poor condition for truck traffic as it approaches Fowler Road.

**Survey Needs:** Part of section 14 was already surveyed to verify a cabin trespass. A second potential trespass was discovered during the compartment inventory that may require further surveying in the NENE of section 14.

**Recreational Facilities and Opportunities:** The Platte River Snowmobile Trail passes through sections 2 and 11. Garey Lake State Forest Campground is within one mile to the east of the compartment as is the Pearl Lake area. The area is popular for deer and grouse hunting. Non-hunting use consists of berry and mushroom picking.

**Fire Protection:**

**Additional Compartment Information:** The trespass cabin in the NW ¼ SE ¼ of section 14 remains an unresolved issue. Pursuing purchase of the parcel is recommended.

Forty acres in the NE ¼ of section 14 was apparently purchased by the state in 1981, but the parcel was not added to the inventory until now. The neighboring private 20 acre parcel may have one or more structures in trespass, as discussed under survey needs.

**\*\*\*\* Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

- Cover Type by Age Class**
- Cover Type by Management Objective**
- Compartment Volume Summary**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**

**\*\*\*\* The following information is displayed on the attached compartment maps:**

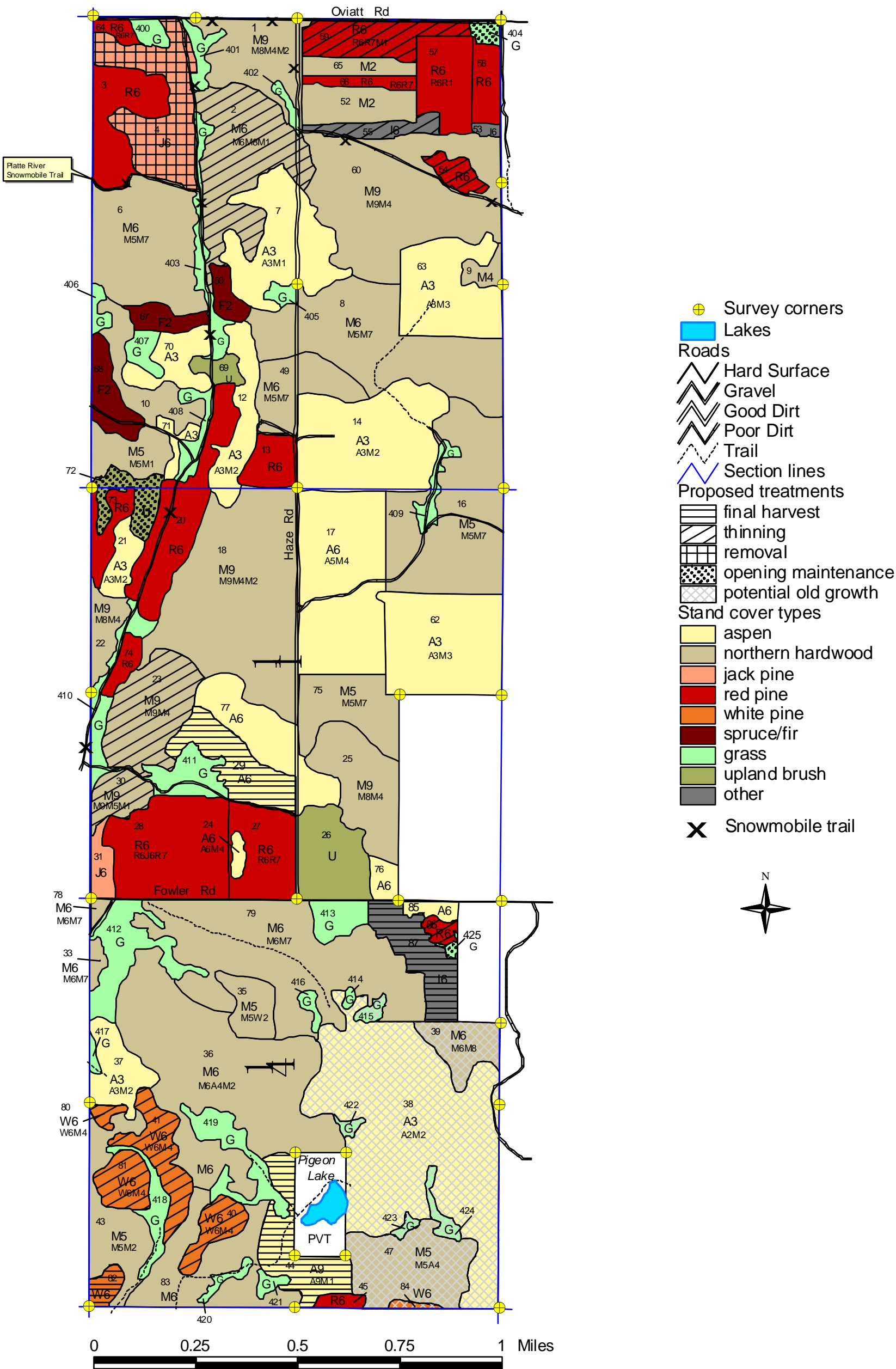
- Base feature information, stand numbers, cover types**
- Proposed treatments**
- Proposed road access system**
- Suggested potential old growth**

COMPARTMENT 005

T27N - R14W - Sec's 2, 11, 14  
COUNTY: BENZIE  
UNIT: TRAVERSE CITY  
YOE: 2004  
RMU: HABITAT / VEGETATION (Intensive Timber)



GIS ACRES: 1905  
DEED ACRES: 1895  
R. Walters  
T. Webb  
REVISED: 11-14-02



Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

BENZIE COUNTY

COMPARTMENT: 5

Table 3

(acres shown in boxes)

**STAND AGE CLASS**[illegible]

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

BENZIE COUNTY

COMPARTMENT: 5

Table 3A

(acres shown in boxes)

## MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	495																										495
G Grass					123											1											124
J Jack Pine							6																	34			40
I Local Name								8								19											27
R Red Pine																209											209
F Spruce Fir																			22								22
U Upland Brush																								38			38
M Upland Hdws																									908		908
W White Pine	4																									38	42
Total	499				123		6	8								229			22				38	942		38	1905

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

BENZIE COUNTY

COMPARTMENT: 5

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	14782 Cds	Hardwood	1181 Cds
Hardwood	2353 Mbf	Hardwood	253 Mbf
Softwood	8995 Cds	Softwood	1824 Cds
Softwood	229 Mbf	Softwood	24 Mbf
Sum TotVol	28941 Cds	Sum CutVol	3559 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	260
1895		Acres Meeting Silv Criteria.....	189
		Acres Not Meeting Silv Criteria.....	1716
Acres Unable to Determine Silv Criteria For.....			

## TRAVERSE CITY FOREST MGT UNIT

Proposed Treatments  
With NO Limiting Factors

Compartment: 5

Entry Year: 2004

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
2	M6	47		65	northern hardwood	immature	thinning	1		
comnts Fmd : SOME GOOD POLES AT SOUTH END. SOME VERY POOR AREAS Split from stand 1 in 2002, this stand more pole size, higher BA. Some CWD present, pockets of aspen. Aspen and cherry declining. Scattered large, wolfy beech. Misc. NH = yellow birch, white ash, beech, basswood.										
4	J6	34	48	42	northern hardwood	mature	removal	1	planting	
comnts Fmd : UNDERPLANT SOME OF STAND TO RED OAK Poor JP succeeding to M: remove 60% JP to release M saps, leave rest of JP to nurse M saps and eventually fall over to protect M seedlings from browsing. Could optionally supplement regen with acorn planting.										
23	M9	31		70	northern hardwood	immature	thinning	2		
comnts Fmd : M9M4 VARIES FROM POLES TO MATURE SAWLOGS Stand was partially marked but never cut. Complete marking and thin, leave pockets of aspen/ash saps, mark/leave some mature aspen. Some CWD, mark some trees to drop an leave. Block hill climb area with slash during sale. Bigtooth, beech, s. maple, ash, basswood, a few cherry and yellow birch.										
29	A6	21	35	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : HEAVY FALLOUT FROM COMPETITION A6M4 MAY BE COMMERCIAL NEXT 10 YRS Split out stand #29 in 2002, #29 proposed cut, #77 proposed to leave for now. Leave reserve around wetland inclusion.										
30	M9	10		70	northern hardwood	immature	thinning	1		
comnts Fmd : M6M7 CHECK FOR QUALITY N HDWD MGT IN TEN YEARS A few old beech. Little CWD. Aspen mostly on north fringe. Ironwood, s. maple saps. M9M5M1										
40	W6	9	38	50	white pine	immature	thinning	2		
comnts Fmd : ALMOST ALL W PINE IS WEEVILED. 60% WILL RECOVER W6M4M7 CHECK FOR RELEASE NEXT TREATMENT PERIOD 3rd row thin, then select out weeviled trees next thinning. Mixed hardwood = cherry, s. maple, aspen.										
41	W6	16	38	50	white pine	immature	thinning	2		
comnts Fmd : ALMOST ALL W PINE IS WEEVILED. 40% WILL RECOVER W6M4 CHECK FOR RELEASE NEXT TREATMENT PERIOD 3rd row thin, then select out weeviled trees next thinning. SM, RM, A, BC scattered, some thicker hardwood poles in places.										
44	A9	22	78	70	aspen (upland)	mature	final harvest	1		
comnts Fmd : SOME POOR CLONES, ALSO QUAKING ASPEN Steep in places. Spec or mark non-aspen leave trees: WP, BC, RM, AB, WB. Some snags. Mark CWD trees, 1-2 old aspen per acre. Leave a buffer around pothole NW of private gate.										
54	R6	5	46	70	red pine	immature	thinning	1		
comnts Fmd : SOME W PINE IN N PART OF STAND 2002: 3rd row thin.										
55	I6	7	46	65	local use	immature	thinning	2		
comnts Fmd : DOUG FIR 34 FEET & 41 FEET TALL, 36 YEARS OLD 2002: marked thinning, cut all Scotch/Austrian pine, thin WP and Douglas fir. BA's lower in Doug fir, Austrian pine strips. Mixed hardwood = ash, s. maple.										
59	R6	20	55	50	red pine	immature	thinning	1		
comnts Fmd : R6R7 2002: WP, hardwood regen in previously thinned rows. A few rows of pole WP.										
72	U0	10			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : SCATTERED OPEN-GROWN HARDWOOD										
Wld : Hand fell encroaching hardwoods to maintain semi-open habitat.										
80	W6	2	38	50	white pine	immature	thinning	2		
comnts Fmd : ALMOST ALL W PINE IS WEEVILED. 40% WILL RECOVER W6M4 CHECK FOR RELEASE NEXT TREATMENT PERIOD 2002: 3rd row thin, then select out weeviled trees next thinning.										
81	W6	10	38	50	white pine	immature	thinning	2		
comnts Fmd : ALMOST ALL W PINE IS WEEVILED. 40% WILL RECOVER W6M4 CHECK FOR RELEASE NEXT TREATMENT PERIOD 2002: 3rd row thin, then select out weeviled trees next thinning.										
82	W6	4	38	50	aspen (upland)	immature	final harvest	2		
comnts Fmd : ALMOST ALL W PINE IS WEEVILED. 40% WILL RECOVER W6M4 CHECK FOR RELEASE NEXT TREATMENT PERIOD Poorest of the cluster of WP plantations, has enough aspen to regenerate to aspen. Mark about 15' BA of better WP as leave trees, clearcut rest.										



**TRAVERSE CITY FOREST MGT UNIT**
**Proposed Treatments  
With NO Limiting Factors**
**Compartment: 5**
**Entry Year: 2004**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
86	R 6	3	47		red pine	immature	thinning	1		
comnts Fmd : Stand added 2002 in previously unmapped state acquired 40. 3rd row thin. Wait till apparent trespass is resolved. Year of origin estimated - needs to be field checked.										
87	I 6	19	42		red pine	low quality	final harvest	1	planting	
comnts Fmd : Stand added 2002 in previously unmapped state acquired 40. Gnarly Scotch pine (abandoned Christmas trees?) plantation, a few Douglas fir and small deciduous poles, beech seedlings. Clearcut and replant to red pine.										
404	G 0	3		70	grass	nonstocked		0	opening maintenance	
Wld : Hand fell encroaching scotch pine.										
410	G 0	10			grass	nonstocked		0	other - specify in remarks	
comnts Fmd : Eroded hill climb area southeast corner. Have logger block hill climb with slash when thinning adjacent stand #23.										
<b>Total Acres.....</b>		<b>283</b>								

# TRAVERSE CITY FOREST MGT UNIT

## Proposed Treatments With Limiting Factors

Compartment: 5

Entry Year: 2004

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
425	G0	1			red pine	nonstocked		0	planting	

TREATMENT LIMITING FACTORS: Neighbor

comnts Fmd : Stand added 2002 in previously unmapped state acquired 40. Apparent trespass, buildings, slash/debris, and vehicles may be on state land. Mowed grass. Needs survey to confirm.

Total Acres..... 1